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TO : Chief, Engineering Division

DATE: 21 November 1951

FROM : [] Research and Development Branch

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SUBJECT: Visit to BuShips - DAQ Conversion

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Lt. Comdr. Kane of BuShips indicated that their contract with [] for the conversion of DAQ equipments was proceeding behind schedule. Their contract calls for the delivery of two complete systems. It was indicated that delivery would probably be made not sooner than February or March of 1952. This was substantiated by a Mr. Thrift, who is Mr. Kane's superior. These gentlemen also indicated that their specification was broad and that much technical liaison was necessary with [] due to the inadequacy of the specification as well as the inability of [] to complete the development work.

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They expressed the opinion that an extension of the Navy contract would be possible for CIA but that our delivery would probably be sometime in June of 1952.

Mr. Thrift was familiar with the AN/CRD-2 D.F. equipment and stated that for sky wave use its performance would essentially duplicate that of the SCR-502. However, an electronic goniometer is used in the AN/CRD-2 equipment. Its operation is based on the use of a balanced modulator, and this modulator is evidently a continuing source of trouble in the field. The necessity for tube selection and frequent tube replacement has resulted in a trend away from this equipment by the Signal Corps.

Mr. Thrift stated that [] had been the designer in charge of this AN/CRD-2 when it was built [] Since that time [] has formed a company of his own, [] Mr. Thrift suggested the possibility of having [] do a minor development job on these three equipments that we need, to reduce the maintenance work that they now require. Mr. Thrift showed a high regard for []

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The impression that the writer received from Mr. Thrift was that the AN/CRD-2 used only one antenna array. However, the instruction book for the equipment shows that the use of more than one array may be necessary to cover the complete frequency range. Mr. Thrift also stated that the AN/CRD-2 would require a somewhat better site than does the SCR-502 for equivalent sensitivity and Azimuth accuracy.

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Other clarifying information that was gained is as follows:

1. The SCR-502 has a High Band Array and a Low Band Array and a single receiver is used in conjunction with them. The antennas are switched by means of a coaxial switch which presents maintenance difficulties in itself.

2. The Navy ~~NAV~~^{DAB} equipment is similar to their DAQ equipment.

3. Modification of a SCR-291 would be one solution to our problem. As it stands it uses a single Adcock array covering 3.7-10 mc. Modification would consist of adding a second Adcock array to cover 10-30 mc. Operation would be similar to the SCR-502.

4. The AN/CRD-2 weighs approximately 3000 lbs. The SCR-502 weighs approximately 10,000 lbs. Both are considered semi-portable.

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